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CONTINUOUS PROCESS FOR THE SYNTHESIS OF NANO-SCALE PRECIOUS METAL PARTICLES

ABSTRACT OF THE DISCLOSURE

The present invention relates to the continuous production of nanoscale precious metal particles on SiH-containing support materials, the
compositions themselves, and the use of these precious metal-containing
compositions as catalyst. The continuous process according to the
invention includes impregnating support materials and, after thermal
activation, drying the support materials by spraying or by fluidized bed
technology leads to form precious metal-containing support compositions
that are active in the catalysis of oxidation reactions. The catalytically
active precious metal-containing support compositions exhibit high
selectivities and productivities and have very long catalyst service lives
without deactivation. The invention also relates to a process for the
oxidation of hydrocarbons in the presence of oxygen, a reducing agent
and the precious-metal containing support compositions of the present
invention.